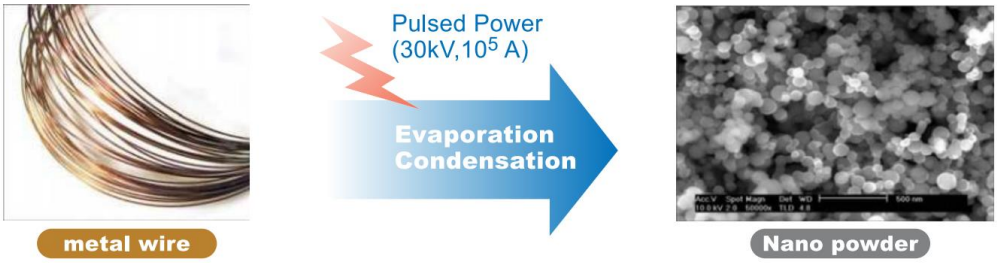
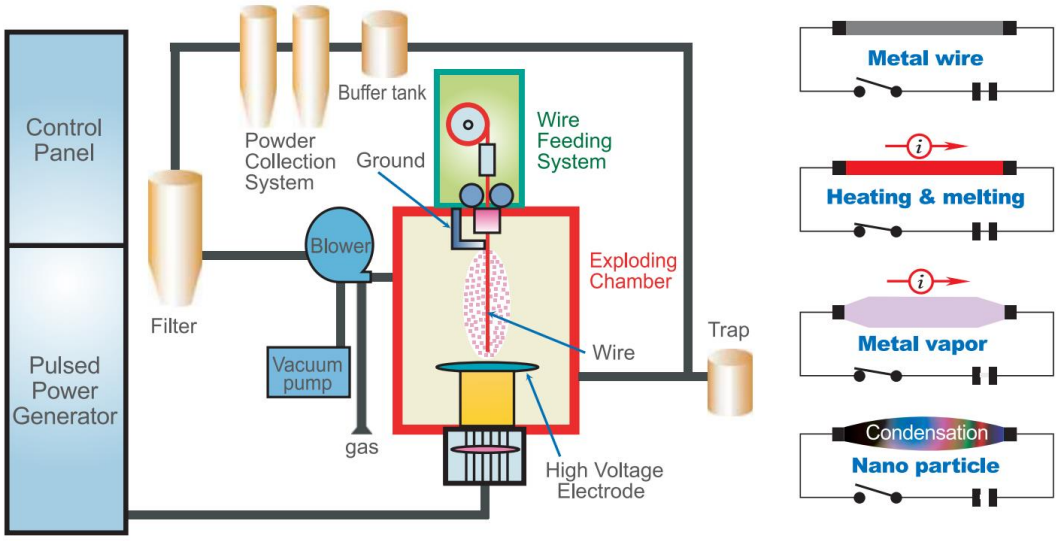
NanoPowder Generator

NTi 30P

NTi 100P

Pulsed Wire Evaporation (PWE) is the technology to produce nanoparticle by using pulsed power and metal wire





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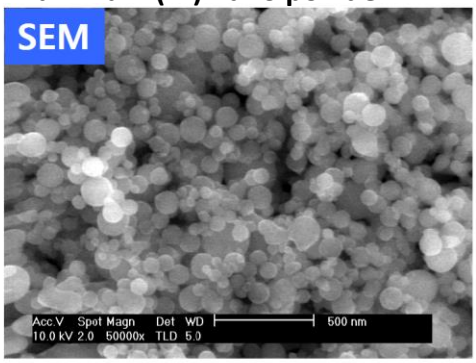
nanoPowder Generator Characteristics

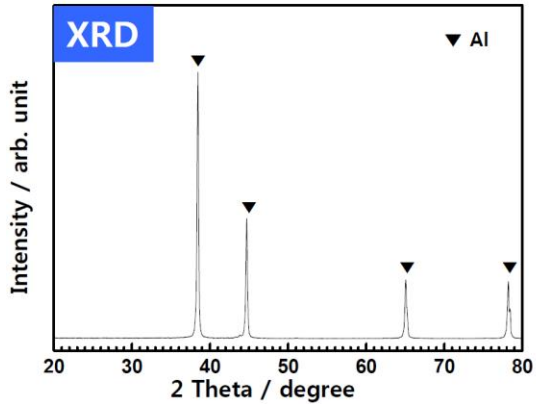
1. Easy to produce nanopowder **whenever and wherever** by easy operation
    a. Input : metal wire and electric power → Output : nanopowder
2. Possible to produce **all kinds of conductive metal** and **metal oxide**
    a. Spherical type, APS: 100nm
    b. High purity
3. Possible to fabricate nanopowder of high fusion point metal including tungsten
4. **High energy efficiency** by using Pulsed Power
5. **Environmental Friendly Process** "no by-product"
6. Simple operation and **easy to maintain**
7. Low cost and high productivity
8. Suitable for small-quantity **production, research and education**

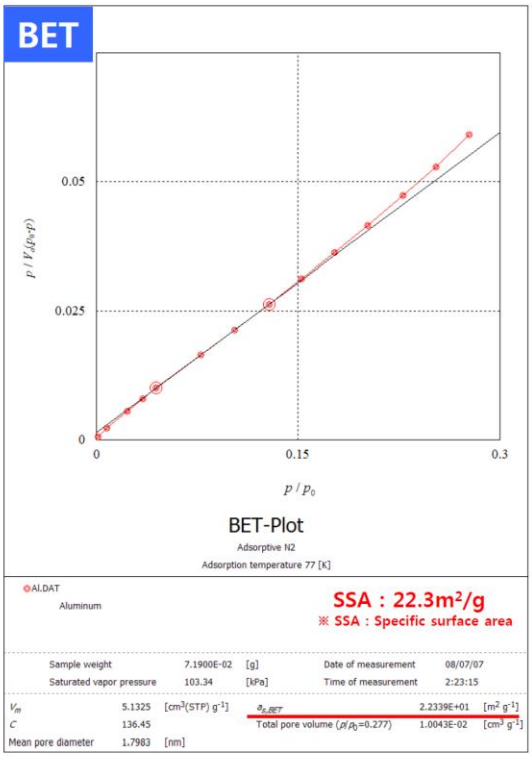
nanoPowder Generator Specifications

Model	NTi 30P	NTi 100P
Input power	3-Phase 220V, 20A(max)	3-Phase 220V, 30A(max)
Output voltage	~10 KV	~30 KV
Power consumption	1.5 KW	2.5 KW
Pulse energy	700 J/pulse	1500 J/pulse
Number of pulses per minute	40 times (max)	40 times (max)
Cooling Type	Water cooling	Water cooling
Input wire diameter	ϕ0.2-0.8 mm	ϕ0.2-0.8 mm
Length of wire / feeding	40 mm	80 &140 mm
Morphology	spherical	spherical
Average particle size	100 nm	100 nm
Production Capacity (Cu base)	50 g/h	150 g/h
Gas used	Nitrogen, Argon and Oxygen	Nitrogen, Argon and Oxygen
Weight	300 kg	500 kg
Dimension [W*D*H] mm	1500x510x1100	1600x700x2000

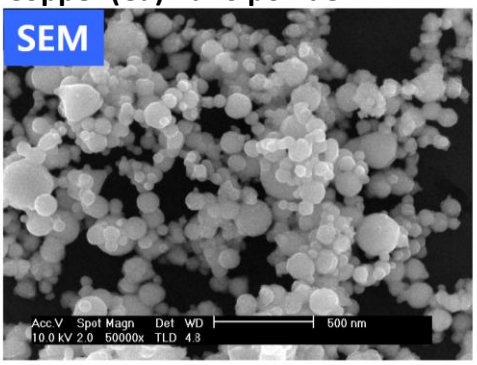
Aluminum (Al) nano powder

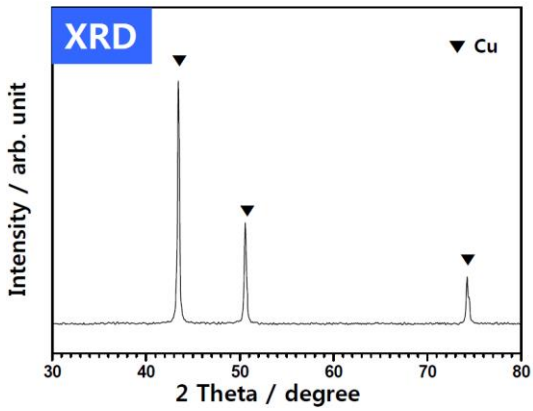


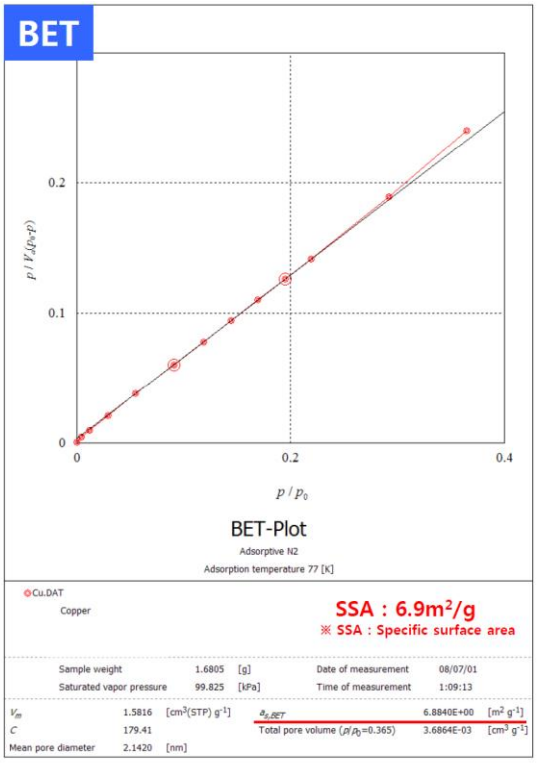




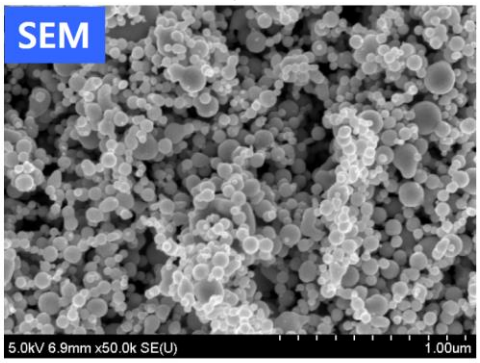
Copper (Cu) nano powder

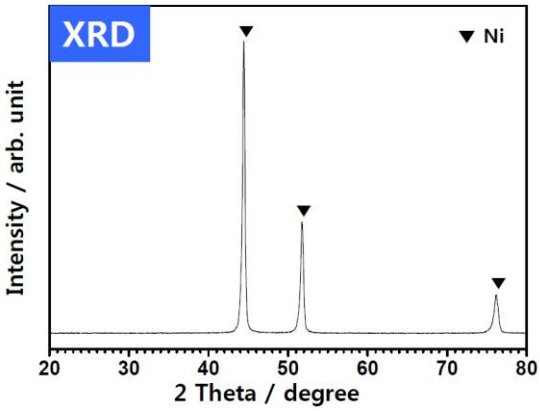


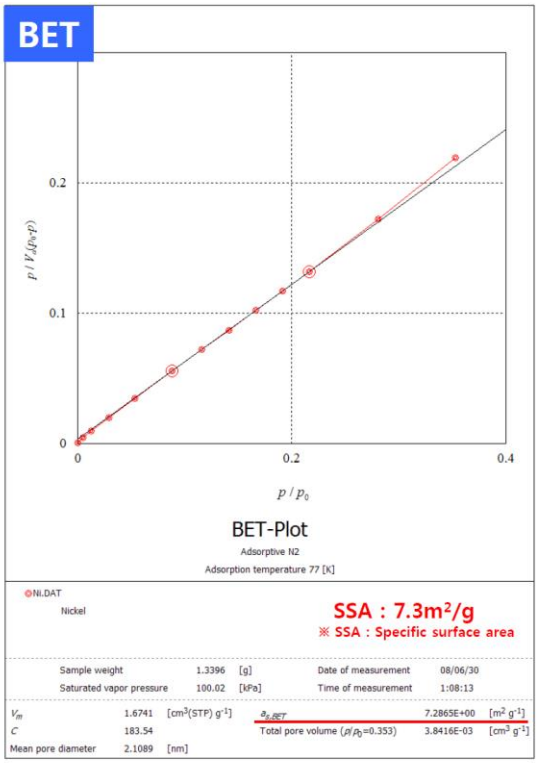




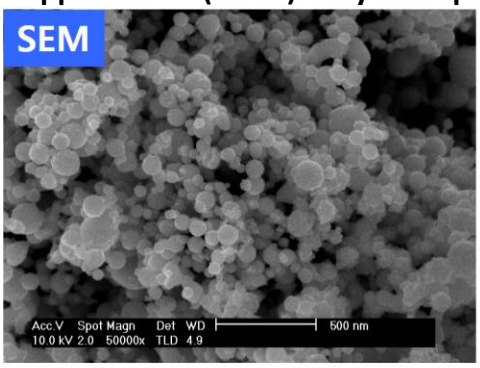
Nickel (Ni) nano powder

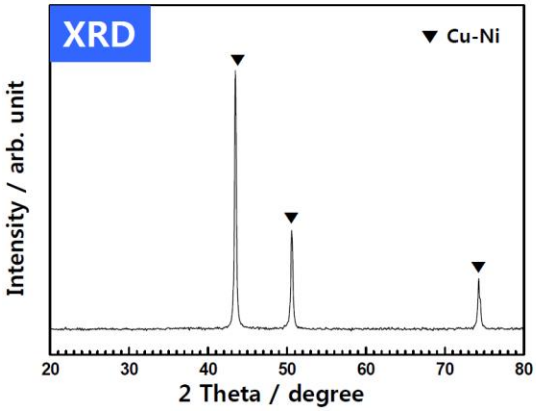


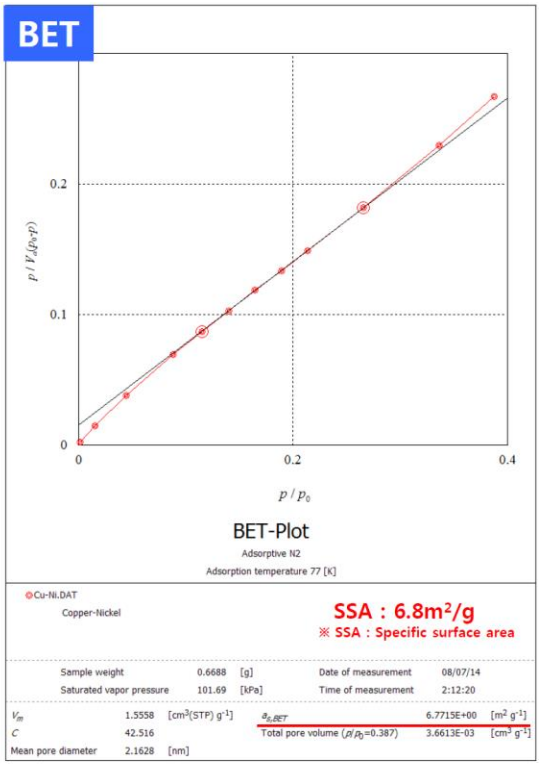




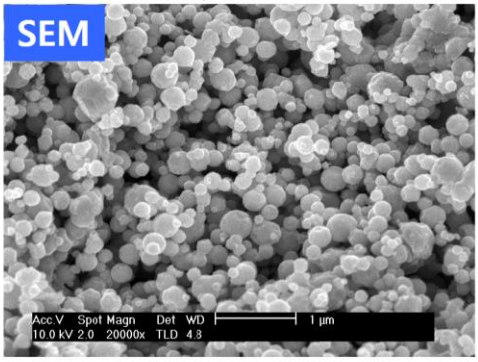
Copper-Nickel (Cu-Ni) alloy nano powder

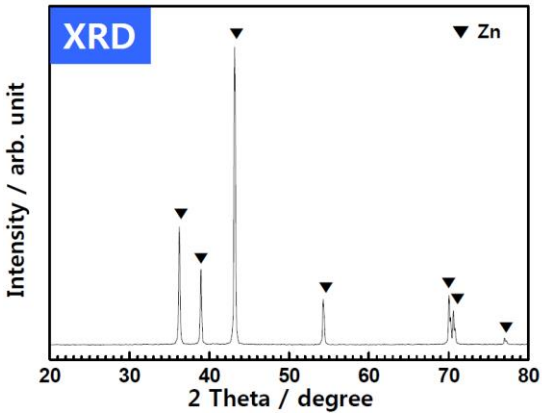


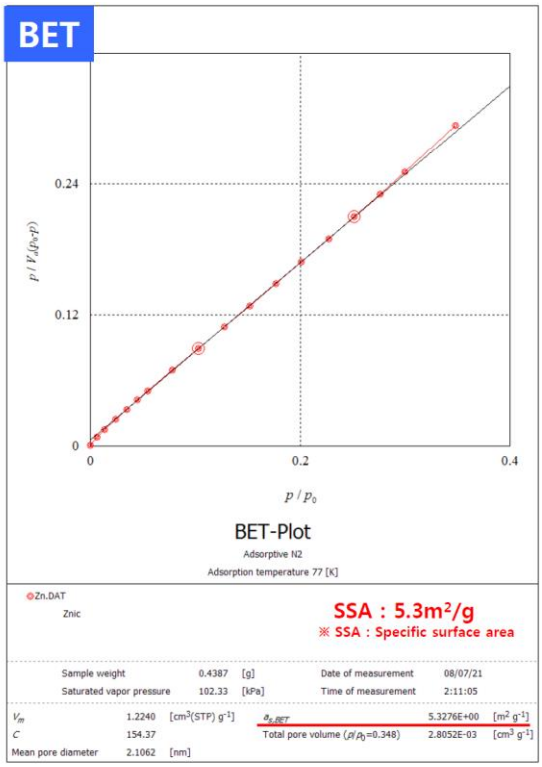




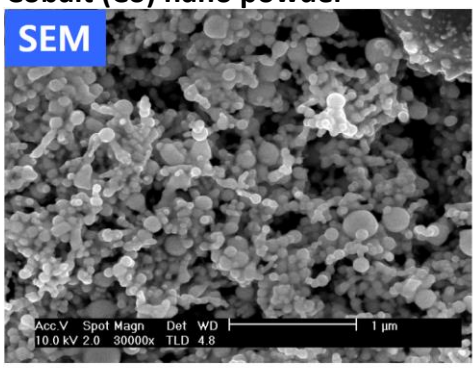
Zinc (Zn) nano powder

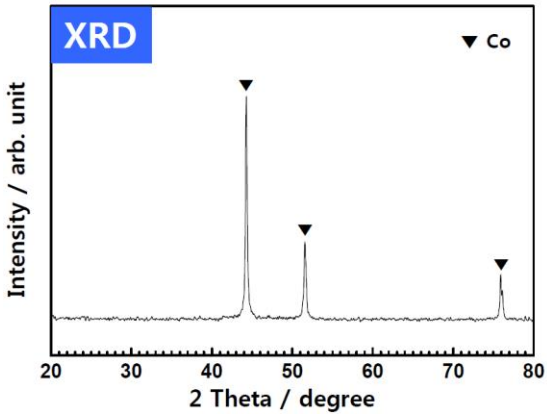


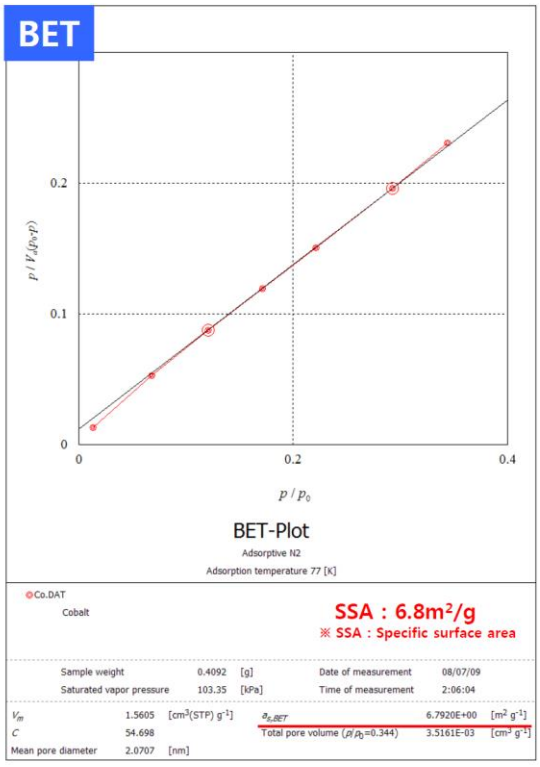




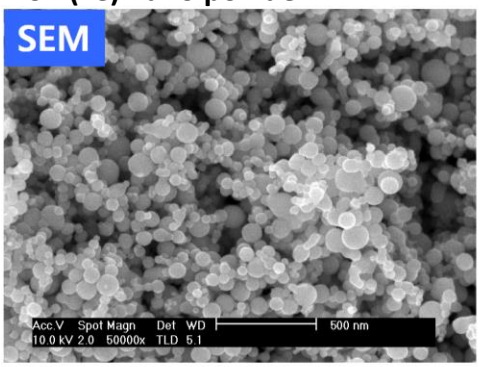
Cobalt (Co) nano powder

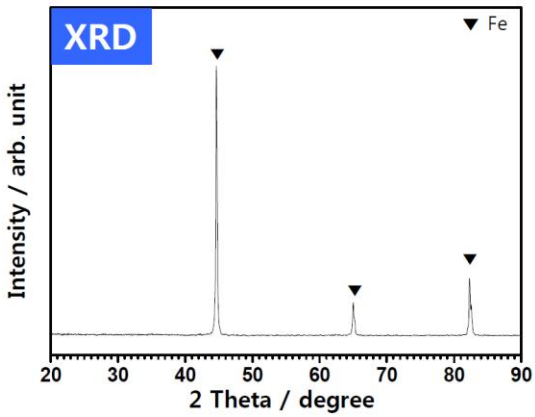


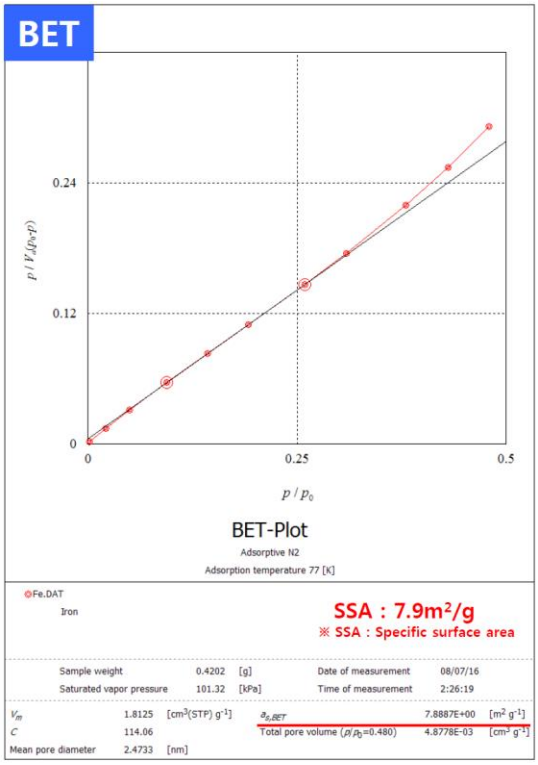




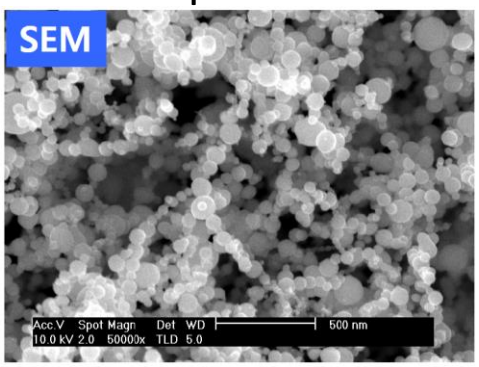
Iron (Fe) nano powder

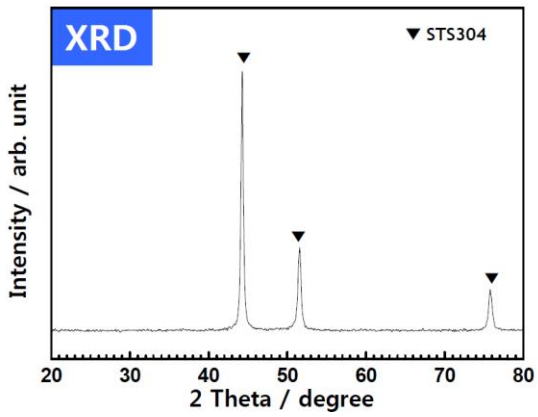


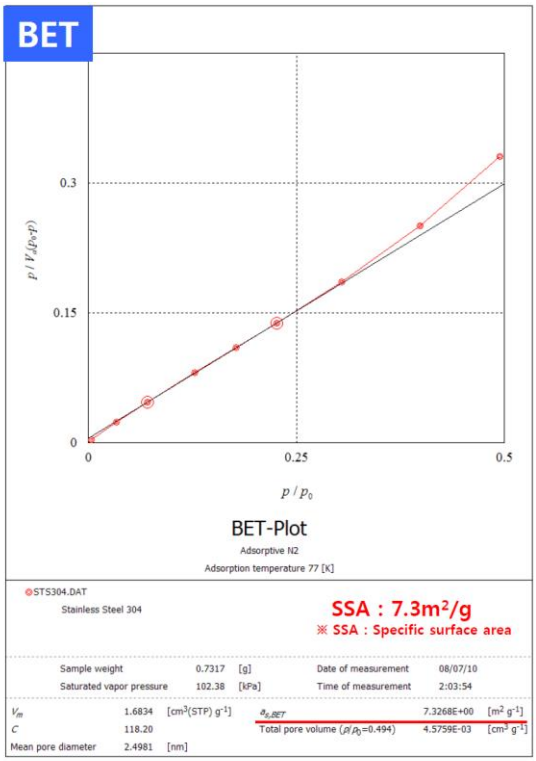




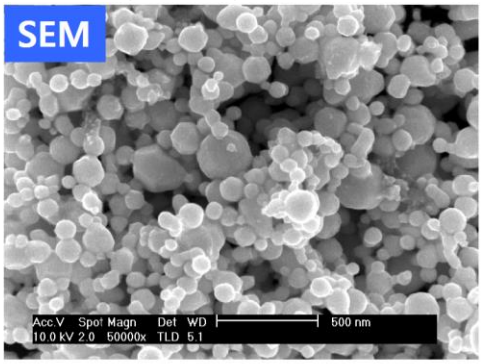
STS304 nano powder

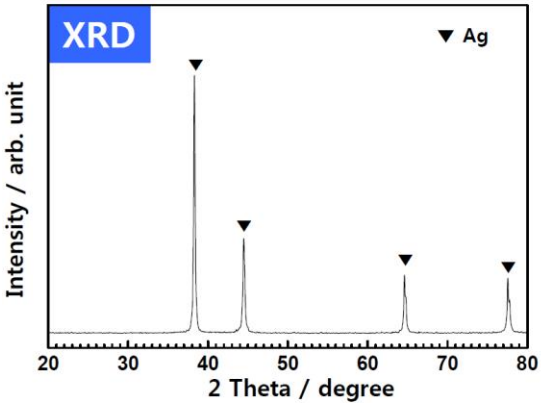


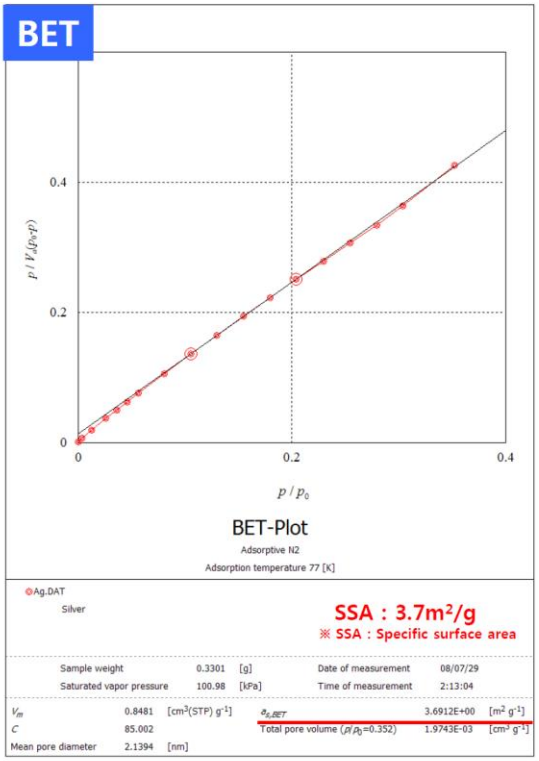
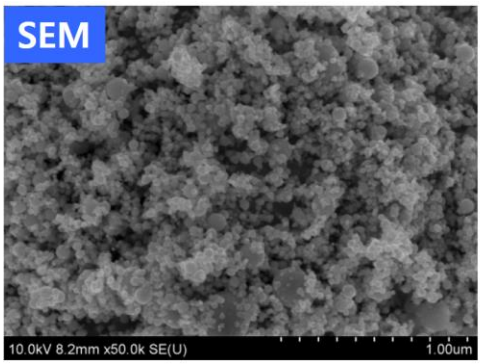
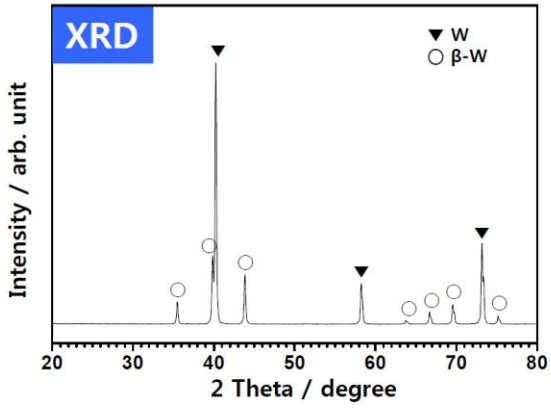
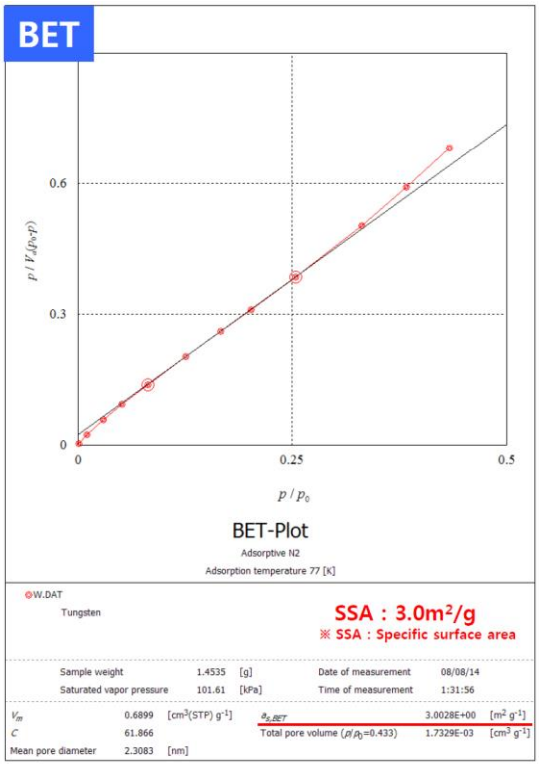




Silver (Ag) nano powder







Tungsten (W) nano powder